

PROPOSED RULE MAKING

CR-102 (June 2012) (Implements RCW 34.05.320) Do NOT use for expedited rule making

Agency: State Building Code Council				
Preproposal Statement of Inquiry was filed as WSR 12-03-11	=: <u> </u>			
Expedited Rule MakingProposed notice was filed as WSR	; or Supplemental Notice to WSR			
Proposal is exempt under RCW 34.05.310(4) or 34.05.330(1).				
Title of rule and other identifying information: (Describe Subject) Adoption and amendment of the 2012 International Energy Conservation Code (Residential), WAC 51-11R, and repeal of WAC 51-11				
Hearing location(s):	Submit written comments to:			
September 14, 2012 September 21, 2012	Name: Ray Allshouse, Chair, State Bldg Code Council			
Center Place Event Center DES Presentation Room	Address: PO Box 41449 Olympia, WA 98504-1449			
2426 N. Discovery Place 1500 Jefferson SE	e-mail sbcc@ga.wa.gov			
Spokane Valley, WA 99216 Olympia, WA 98504	fax (360) 586-9088 by (date) Sept. 21, 2012			
Date: <u>Sept. 14/Sept 21</u> Time: <u>10 a.m</u>	Assistance for persons with disabilities: Contact			
	Peggy Bryden by Sept7, 2012			
Date of intended adoption: November 9, 2012 (Note: This is NOT the effective date)	TTY () or (360) <u>407-9280</u>			
Purpose of the proposal and its anticipated effects, including an	y changes in existing rules:			
19.27A.160. As part of this adoption, the energy code is recodified as two separate WACs: WAC 51-11R for residential requirements and WAC 51-11C for commercial requirements. Default building assembly values previously found in Chapter 10 of the energy code can now be found in Appendix A of WAC 51-11C and are applicable to both. Fenestration default values are found in Section R303.1.3. Please see Attachment A for a further summary of proposed changes as compared to the 2009 Washington State Energy Code.				
General layout of 2012 IECC: Chapter 1: Scope, Admin and Enforcement Chapter 2: Definitions Chapter 3: General requirements R301 - Climate Zones R302 - Design Conditions R303 - Materials, Systems & Equip Appendix C: Exterior Design Conditions	Chapter 4: Residential Energy Efficiency R401 – General Requirements R402 – Building Thermal Envelope R403 – Mechanical Systems R404 – Electrical Power & Lighting R405 – Simulated Performance Alternative R406 – Additional Energy Efficiency Requirements Chapter 5: Reference Standards			
Statutory authority for adoption: RCW 19.27A.020, 19.27A.025, Statute being implemented: RCW 19.27, 19.27A and 34.05				
19.27A.045, 19.27A.160				
Is rule necessary because of a: Federal Law?	CODE REVISER USE ONLY			
Federal Court Decision? State Court Decision? Yes No Yes No	OFFICE OF THE CODE REVISER			
State Court Decision?	STATE OF WASHINGTON			
If yes, CITATION:	FILED			
	DATE: July 31, 2012			
DATE				
July 31, 2012	TIME: 3:34 PM			
NAME (type or print) Ray Allshouse	WCD 42 46 006			
SIGNATURE 0 0 1	WSR 12-16-086			
Chay Walane_				
TITLE Council Chair				

Agency comments or recommendations, if any, as to statutory language, implementation, enforcement, and fiscal matters:			
The Council is seeking comments on the issues proposed in the attached rules.			
Name of pro	pponent: (person or organization) V	Vashington State Building Code Council	Private Public Governmental
Name of age	ency personnel responsible for:		
	Name	Office Location	Phone
Drafting	Krista Braaksma	1500 Jefferson SE, PO Box 41449, Olympia WA	(360) 407-9278
Implementatio	nKrista Braaksma	1500 Jefferson SE, PO Box 41449, Olympia WA	(360) 407-9278
Enforcement			()
Has a small business economic impact statement been prepared under chapter 19.85 RCW or has a school district fiscal impact statement been prepared under section 1, chapter 210, Laws of 2012?			
☑ Yes. Attach copy of small business economic impact statement or school district fiscal impact statement.			
	copy of the statement may be obta Name: Tim Nogler, Washington State Address: PO Box 41449 Olympia, WA 98504-1449 phone (360) 407-9280 fax (360) 586-9088 e-mail sbcc@ga.wa.gov	Building Code Council	
Is a cost-bei	nefit analysis required under RC\	W 34.05.328?	
☐ Yes	A preliminary cost-benefit analysis	may be obtained by contacting:	
	Name: Address:		
	phone () fax () e-mail		
No: Please explain: The State Building Code Council is not one of the agencies identified as required to prepare an analysis. However, the Council intends to prepare an analysis prior to the final adoption of these rules and a copy can be requested using the same information as provided for the small business economic impact statement.			

Attachment A: Summary of Proposed Changes

- 1. **Change of Scope**. With the adoption of the 2012 International Energy Conservation Code (IECC), the definition of "Residential" has changed. WAC 51-11R now applies to detached one- and two-family dwellings and townhouses AND Group R-2, and R-3 buildings three stories or less. Clarifying language is added that converted spaces must be brought into full compliance (R101.4.4).
- 2. **Climate Zones**. The climate zones in the Energy Code have changed to reflect those of the IECC. Washington State is now comprised of three climate zones: Climate Zone 4 Marine, Climate Zone 5, and Climate Zone 6. For the residential code, Climate Zones 4 Marine and 5 share the same requirements. See Table R301.1 for a county by county breakdown of climate zones.
- 3. **Prescriptive Envelope Requirements**. The code no longer has multiple paths for prescriptive compliance. Door U-factors are now the same as window U-factors. Wood wall requirements in Climate Zone 6 (Ferry, Okanogan, Pend Oreille and Stevens counties) have increased. Values can be found in Tables R402.1.1 andR402.1.3. Insulation for slab-on-grade floors in Climate Zone 6 are required to extend 48 inches instead of 24 inches.
- 4. **Air Leakage Requirements**. Specific air barrier requirements and insulation details are provided in Table R402.4.1.1. Testing results are measured in ACH rather than SLA. The requirement is for 5 ACH, which is slightly better than the 2009 code. Specific maximums for window and door leakage rates are added (R402.4.3).
- 5. **Mechanical Requirements**. Lockout controls for heat pumps (R403.1.2) was changed from 32 to 35 degrees to correspond with control capabilities. Duct insulation is set at a minimum of R-8 (R403.2). The IECC contains a requirement for air handlers to be sealed (R403.2.2.1). Hot water piping insulation was changed to R-4 (R403.4.2). The IECC carries minimum requirements for mechanical ventilation fan efficiency (R403.5) and snow melt systems (R403.8). Systems serving multiple dwelling units are directed to comply with Sections C403 and C404 of WAC 51-11C. Pool heaters are required to be equipped with time switches (R403.9.2)
- 6. **Lighting Requirements**. The IECC requires that 75 percent of installed <u>lamps</u> be high efficiency (R404.1). Fuel gas lighting systems are prohibited from having continuously burning pilots (R404.1.1).
- 7. **Simulated Performance Alternative**. The systems analysis approach now includes heating, cooling and service water heating energy only (R405.1). Depending on the size of the dwelling, the analysis must be between 83 and 97 percent of the standard reference design (R405.3) to incorporate requirements from R406.
- 8. **Additional Energy Efficiency Requirements**. Section R406 contains requirements for one- and two-family dwellings and townhouses. Depending on the size of the dwelling, they are required to achieve between 0.5 to 2.5 credits (R406.2). The list of options (Table 406.2) has been reorganized and additional options have been added for air leakage and HVAC equipment.

To review a copy of the Residential IECC with all changes to the model code marked, see https://fortress.wa.gov/ga/apps/SBCC/File.ashx?cid=2251. Changes to incorporate 2009 WSEC provisions are shown in black strikethrough/underline formatting, while changes from code change proposals received are shown in track changes mode.